

DEPARTMENT OF BOTANY

HONOURS/GENERAL CBCS	COURSES	PAPER/ NUMBER OF LECTURES	JULY-SEPTEMBER	TEST EXAMINATION	OCTOBER -DECEMBER	JANUARY	
SEMESTER-I	CORE- C1	BOTACOR01 T 60 (THEORY)	UNIT 1:INTRODUCTION TO MICROBIAL WORLD, UNIT 2:VIRUSES, UNIT 3:BACTERIA, UNIT 4: ALGAE: GENERAL ACCOUNT, NO. OF CLASSES= 32		TEST EXAMINATION	UNIT 5: CYANOPHYTA AND XANTHOPHYTA, UNIT 3: CHLOROPHYTA AND CHAROPHYTA, UNIT 7:PHAEOPHYTA AND RHODOPHYTA. NO. OF CLASSES= 28	UNIVERSITY FINAL EXAMINATION
		BOTACOR01 P 30 (PRACTICAL)	MICROBIOLOGY: 1. VIRUS, 2. BACTERIA. PHYCOLOGY: 1. STUDY OF VEGETATIVE AND REPRODUCTIVE STRUCTURE. NO. OF CLASSES=16	MICROBIOLOGY: 1. MEDIUM PREPARATION, STERILIZATION, 4. GRAM STAINING. PHYCOLOGY: 2. PRISM DRAWING AND MEASUREMENT. NO. OF CLASSES=14			
	CORE- C2	BOTACOR02 T 60 (THEORY)	UNIT 1:BIOMOLUCULES: CARBOHYDRATES, LIPIDS, PROTEINS, NUCLIC ACIDS, UNIT 2:BIOENERGETICS, UNIT 4:THE CELL, UNIT 5: CELL WALL AND PLASMA MEMBRANE NO. OF CLASSES= 32	TEST EXAMINATION	UNIT 3:ENZYMES, UNIT 6:NUCLEUS, CYTOSKELETON, CHLOROPLAST, MITROCHONDRIAAND PEROXISOME. UNIT 7: CELL DIVISION NO. OF CLASSES= 28		
		BOTACOR02 P 30 (PRACTICAL)	1. QUALITATIVE TESTS 2. STUDY OF PLANT CELLS, 3. MICROMETRY, 4. CELL COUNTING. NO. OF CLASSES= 16		5. STUDY OF CELL ORGANELLES, 6. DNA STAINING, 7.MEMBRANE PERMEABILITY TEST, STUDY OF DIFFERENT STAGES OG MITOSIS AND MEIOSIS. NO. OF CLASSES= 14		
			JANUARY-MARCH	TEST EXAMINATION	APRIL-JUNE	JULY	
SEMESTER-II	CORE- C3	BOTACOR03 T 60 (THEORY)	UNIT 1:INTRODUCTION FUNGI, UNIT 2:CHITRIDIOMYCOTA AND ZYGO MYCOTA, UNIT 3:ASCOMYCOTA, UNIT 4: BASIDIOMYCOTA NO. OF CLASSES=32		TEST EXAMINATION	UNIT 5: ALLIED FUNGI, UNIT 6: OOMYCOTA, UNIT 7: MYCOLOGY, UNIT 9. PHYTOPATHOLOGY. NO. OF CLASSES= 28	UNIVERSITY FINAL EXAMINATION
		BOTACOR03 P 30 (PRACTICAL)	1. STUDY OF FUNGI, 2. MICROMETRY, 3. RHIZOPUS, 4. ASPERGILLUS AND PENICILLIUM, 5. ASCOBOLLUS, 8. AGARICUS 6. ALTERNARIA, NO. OF CLASSES=16			7. PUCCINIA, 9. ALBUGO, 10. LICHENS, 11. PHYTOPATHOLOGY: BACTERIAL DEASES, VIRAL DISEASES, FUNGAL DISEASES. NO. OF CLASSES=14	
	CORE- C4	BOTACOR04 T 60 (THEORY)	UNIT 1: INTRODUCTION ARCHAEGONIATES. UNIT 2: BRYOPHYTES, UNIT 3:TYPES STUDIES-BRYOPHYTES NO. OF CLASSES=32	TEST EXAMINATION	UNIT 4: PTERIDOPHYTES, UNIT 5: TYPE SYUDIES- PTERIDOPHYTES, UNIT 6: GYMNOSPERMS. NO. OF CLASSES=28	UNIVERSITY FINAL EXAMINATION	
		BOTACOR04 P 30 (PRACTICAL)	1. RICCIA, 2. MARCHANTIA, 3. ANTHOCEROS, 4. SPHAGNUM, 5. FUNARIA, 6. PSILOTUM, 7. SELAGINELLA NO. OF CLASSES=14		8. EQUISETUM, 9. PTERIS, 10. CYCAS, 11. PINUS, 12. GNETUM, 13. BOTANICAL EXCURSION NO. OF CLASSES=16		

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PART II Paper -IV (THEO =100)	THEORY=85	MORPHO. & PALYNOLOGY: INFLORENCE, FLOWER, FRUIT, PALYNOLOGY NO. OF CLASSES=15	TAXONOMY OF ANGIOSP: HERBERIA & BOTANICAL GARDENS IDENTIFICATION, CLASSIFICATION, DICOT FAMILIES- NO. OF CLASSES=26	TAXONOMY OF ANGIOSP: MONOCOT FAMILIES 06 NO. OF CLASSES=10				
		TAXONOMY OF ANGIOSP: INTRODUCTION, NOMENCLATURE NO. OF CLASSES=13	ECOLOGY & PLANT GEO.: PLANT & ENVIRON, POPULATION ECO. NO. OF CLASSES=10	COMM ECOLOGY, CONSERVATION. PLANT GEOGRAPHY NO. OF CLASSES=15				

PAPER -V (THEO=50)	THEORY=50	ANATOMY: CELL WALL& STELE, STOMATA,CAMBIUM NO. OF CLASSES=9	ANATOMY: SPCL. GROWTH &TISSUE ORGANIZATION, DEVELOPMENT NO. OF CLASSES=8	EMBRYOLOGY: EMBRYOLOGY NO. OF CLASSES=8			
		BIOCHEMISTRY: FUNDAMENTALS, BIO- MOLECULES NO. OF CLASSES=10	BIOCHEMISTRY: BIOENERGETICS& OXIDATION REDUC. REACTION ,ENERGY RICH BONDS NO. OF CLASSES=7	BIOCHEMISTRY: ENZYMOLGY. NO. OF CLASSES=8			
Paper VI (PRAC=50)	PRACTICAL=25	ANGIOSPERMS: DICOT (WORK OUT) LOCAL EXCURSION..... NO. OF CLASSES=10	ANGIOSPERMS ,ANATOMY(WORK OUT) EXCURSION(BOTANICAL GARDEN & CNH) NO. OF CLASSES=10	IDENTIFICATION LONG EXCURSION..... NO. OF CLASSES=5			
PART -III Paper VII(THEO=100)	THEORY=80	PLANT PHYSIOLOGY: PLANT WATER RELATION, TRANSPIRATION MEMBRANE TRANSPORT, PHLOEM TRANSPORT PHOTOSYNTHESIS NO. OF CLASSES=25	PLANT PHYSIOLOGY: RESPIRATION , N ₂ METABOLISM GROWTH REGULATORS NO. OF CLASSES=16	PLANT PHYSIOLOGY: PHOTO MORPHOGENESIS O ₂ PHOTOPERIODISM,DORMANCY NO. OF CLASSES=9	TEST EXAMINATION	UNIVERSITY FINAL EXAMINATION	
Paper VII		PLANT BIOTECHNOLOGY: PLANT TISSUE CULTURE CULTURE TECHNIQUE MICROPROPAGATION NO. OF CLASSES=10	PHARMACOGNOSY: GENERAL ACCOUNT, SECONDARY METABOLITES IN PLANTS ACTIVE CONSTITUENTS NO. OF CLASSES=15	PLANT BIOTECHNOLOGY: RECOMBINANT DNA TECHNOLOGY GENETIC ENGINEERING NO. OF CLASSES=5			
PART-III Paper VIII(THEO=100)	THEORY=80	MICROSCOPY ,ORIGIN & EVOLUTION OF CELLS, CELL MEMBRANE NUCLEUS & CHROMOSOME CELL CYCLE & ITS REGULATIONS NO. OF CLASSES=20	GENETICS &MOL. BIOLOGY: PLOIDY, CHROMOSOMAL ABERRATION MUTATION ,DNA REPLICATION & PROTEIN, SYN- THESIS, STRUCTURAL ORGANIZATION OF GENE NO. OF CLASSES=21	GENETICS &MOL. BIOLOGY: GENE REGULATION ,GENETIC CODE BIOINFORMATICS NO. OF CLASSES=11			
Paper VIII		GENETICS &MOL. BIOLOGY: INHERITANCE ,LINKAGE, CROSSING OVER &GENE MAPPING NO. OF CLASSES=13		PLANT BREEDING & BIOMETRY: INTRODUCTION , METHODS OF PLANT BREEDING BIOMETRY NO. OF CLASSES=15			
Paper-IX (PRAC=100)	PRACTICAL=25	PLANT PHYSIOLOGY(MAJOR NO. OF CLASSES=6	PLANT PHYSIOLOGY(MJNOR) NO. OF CLASSES=4	PHARMACOGNOSY NO. OF CLASSES=5			
Paper-IX		BIOCHEMISTRY NO. OF CLASSES=4	BIOCHEMISTRY NO. OF CLASSES=4	BIOCHEMISTRY NO. OF CLASSES=2			
Paper-X (PRAC=100)	PRACTICAL=25	Study of mitotic chromosome Study of Mitotic , Index NO. OF CLASSES=10	Study of Meiotic Chromosome Study from, Permanent slides NO. OF CLASSES=8	Biometry Revision NO. OF CLASSES=7			

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SEMESTER-I	GE I/DSC 1A	BOTHGEC01 T / BOTGCOR01T-60 (THEORY) BOTHGEC01 P / BOTGCOR01P -30 (PRACTICAL)	UNIT 1:MICROBS, UNIT 2:ALGAE, UNIT 3: FUNGI NO. OF CLASSES=34 1. GRAM STAINING, 2.ALGAE, 3-5FUNGI, 6. LICHEN, 7MYCORRHIZA, 8. MARCHANTIA, NO. OF CLASSES=16		UNIT 4:ARCHEGONIATE, UNIT 5:BRYOPHYTES, UNIT 6:PTERIDOPHYTES, UNIT 7:GYMNOSPERMS. NO. OF CLASSES=26 9. FUNARIA. 10. SELAGINELLA, 11.EQUISETUM, 12. PTERIS, 13. CYCAS, 14. PINUS. NO. OF CLASSES=14	UNIVERSITY FINAL EXAMINATION
			JANUARY-MARCH		APRIL-JUNE	JULY
SEMESTER-II	GE 2/DSC1B	BOTHGEC02 T / BOTGCOR02T- 60 (THEORY) BOTHGEC02 P / BOTGCOR02P -30 (PRACTICAL)	UNIT 1: ECOLOGY- INTRODUCTION, UNIT 2: ECOLOGICAL FACTORS, UNIT 6: PLANT TAXONOMY- INTRODUCTION, UNIT 7: IDENTIFICATION, UNIT 8: TAXONOMIC EVIDANCES, UNIT 10: BOTANICAL NOMENCLATURE. NO. OF CLASSES=32 1. GRAM STAINING, 2.ALGAE, 3-5FUNGI, 6. LICHEN, 7MYCORRHIZA, 8. MARCHANTIA, NO. OF CLASSES=16	TEST EXAMINATION	UNIT 3:PLANT COMMUNITIES, UNIT 4:ECOSYSTEM, UNIT 5:PHYTOGEOGRAPHY, UNIT 9:TAXONOMIC HIERARCHY, UNIT 11: CLASSIFICATIO, UNIT 12: NOMENCLATURE. NO. OF CLASSES=26 9. FUNARIA. 10. SELAGINELLA, 11.EQUISETUM, 12. PTERIS, 13. CYCAS, 14. PINUS. NO. OF CLASSES=14	UNIVERSITY FINAL EXAMINATION

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PART-II Paper –II (THEO=100)	THEORY=75	GROUP A ANATOMY ,EMBRYOLOGY NO. OF CLASSES=14	GROUP A ECONOMIC BOTANY, ECOLOGY NO. OF CLASSES=11					
Paper –II		GROUP B CELL BIOLOGY NO. OF CLASSES=8	GROUP B GENETICS NO. OF CLASSES=10	GROUP B GENETICS NO. OF CLASSES=7				
Paper –II			GROUP C BIOCHEMISTRY NO. OF CLASSES=5	GROUP C BIOCHEMISTRY, PLANT PHYSIOLOGY NO. OF CLASSES=20				
Paper –III (PRAC=100)	PRACTICAL=30	CLASS ASSESSMENT	CLASS ASSESSMENT	CLASS ASSESSMENT				
PART-III Paper –IV (THEO=70)	THEORY=32	BIOFERTILIZER MUSHROOM PLANT BREEDING <i>NO. OF CLASSES=15</i>	BIOMETRY PLANT TISSUE, CULTURE PHARMACOGNOSY <i>NO. OF CLASSES=15</i>	RECOMBINANT DNA TECHNOLOGY 8. BIOINFORMATICS <i>NO. OF CLASSES=7</i>				
Paper –V (PRAC=30)	PRACTICAL=10	CLASS ASSESSMENT	CLASS ASSESSMENT	CLASS ASSESSMENT				